

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1 (currently amended): A method of removing amyloid deposits from a subject comprising administering to the subject amyloid fibrils heterologous to the amyloid fibrils in the subject in an effective amount to generate an immune response, wherein the immune response promotes the removal of amyloid deposits from the subject.

Claim 2 (previously presented): A method of claim 1, wherein the amyloid fibrils comprise an immunoglobulin light chain polypeptide or a whole immunoglobulin light chain polypeptide.

Claim 3 (previously presented): A vaccine composition comprising amyloid fibrils.

Claims 4-31 (canceled)

Claim 32 (previously presented): A method of claim 1 or 2, wherein the amyloid fibrils are synthetic amyloid fibrils.

Claim 33 (previously presented): A method of claim 1 or 2, wherein the amyloid fibrils are recombinant amyloid fibrils.

Claim 34 (previously presented): A method of claim 1 or 2, wherein the amyloid fibrils are naturally occurring amyloid fibrils.

Claims 35 and 36 (canceled)

Claim 37 (currently amended): A method of claim 1 or 2, wherein the amyloid fibrils comprise one or more proteins selected from the group consisting of immunoglobulin light chain, serum amyloid A protein, β 2-microglobulin, transthyretin, cystatin C ~~variant~~, gelsolin, procalcitonin, PrP protein, amyloid β -protein, ApoA 1, and lysozyme.

Claim 38 (previously presented): A method of 37, wherein the one or more proteins is a variant or allelic variant thereof.

Claim 39 (previously presented): A method of claim 1 or 2, wherein the subject is a mammal.

Claim 40 (previously presented): A method of claim 39, wherein the mammal is a human.

Claim 41 (previously presented): A method of claim 1, wherein about 10% or more of the amyloid deposits are removed as compared to the subject without treatment of amyloid fibrils.

Claim 42 (previously presented): A method of claim 41, wherein about 20% or more of the amyloid deposits are removed as compared to the subject without treatment of amyloid fibrils.

Claim 43 (previously presented): A method of claim 42, wherein about 30% or more of the amyloid deposits are removed as compared to the subject without treatment of amyloid fibrils.

Claim 44 (previously presented): A method of claim 43, wherein about 40% or more of the amyloid deposits are removed as compared to the subject without treatment of amyloid fibrils.

Claim 45 (previously presented): A method of claim 44, wherein about 50% or more of the amyloid deposits are removed as compared to the subject without treatment of amyloid fibrils.

Claim 46 (previously presented): A vaccine composition of claim 3, wherein the vaccine

composition further comprises a carrier.

Claim 47 (previously presented): A vaccine composition of claim 3 or 46, wherein the vaccine composition further comprises an adjuvant.

Claim 48 (previously presented): A vaccine composition of claim 47, wherein the adjuvant is selected from the group consisting of Freund's, BCG (bacilli Calmette-Guerin), Corynebacterium parvum, aluminum hydroxide (ALUM), lysolecithin, pluronic polyols, polyanions, and dinitrophenol.

Claim 49 (previously presented): A vaccine composition of claim 48, wherein the adjuvant is selected from the group consisting of BCG, Corynebacterium parvum, and ALUM.

Claim 50 (currently amended): A method of removing amyloid deposits from a subject comprising administering to the subject amyloid fibrils heterologous to the amyloid fibrils in the subject comprising an immunoglobulin light chain polypeptide in an effective amount to generate an immune response, wherein the immune response promotes the removal of amyloid deposits from the subject.

Claim 51 (previously presented): A method of claim 50, wherein the subject is a mammal.

Claim 52 (previously presented): A method of claim 51, wherein the mammal is a human.

Claim 53 (previously presented): A vaccine composition of claim 3 comprising an immunoglobulin light chain polypeptide.

Claim 54 (previously presented): A vaccine composition of claim 53, wherein the vaccine composition further comprises a carrier.

Claim 55 (previously presented): A vaccine composition of claim 54, wherein the vaccine

composition further comprises an adjuvant.

Claim 56 (canceled):

Claim 57 (currently amended): ~~The~~ A method of claim 32, wherein the synthetic amyloid fibrils comprise recombinant protein or polypeptide.

Claim 58 (currently amended): A method of removing amyloid deposits from a subject comprising administering to the subject amyloid fibrils heterologous to the amyloid fibrils in the subject comprising a whole immunoglobulin light chain polypeptide in an effective amount to generate an immune response, wherein the immune response promotes the removal of amyloid deposits from the subject ~~and/or a whole immunoglobulin light chain polypeptide~~.

Claim 59 (currently amended): A pharmaceutical composition formulated for removing amyloid deposits from a subject comprising amyloid fibrils heterologous to the amyloid fibrils in the subject.

Claim 60 (previously presented): A pharmaceutical composition of claim 59 comprising an immunoglobulin light chain polypeptide.

Claim 61 (previously presented): A pharmaceutical composition of claim 59 comprising a whole immunoglobulin light chain polypeptide.

Claim 62 (previously presented): A vaccine composition comprising a whole immunoglobulin light chain polypeptide.

Claim 63 (currently amended): ~~The~~ A method of claim 32, wherein the synthetic amyloid fibrils comprise purified native protein or polypeptide.

Claim 64 (new): A method of removing amyloid deposits from a subject comprising

administering to the subject the vaccine composition of claim 3 in an effective amount to generate an immune response, wherein the immune response promotes the removal of amyloid deposits from the subject.

Claim 65 (new): A pharmaceutical composition of claim 59, wherein the pharmaceutical composition further comprises a carrier.

Claim 66 (new): A pharmaceutical composition of claim 59, wherein the pharmaceutical composition further comprises an adjuvant.

Claim 67 (new): A pharmaceutical composition of claim 66, wherein the adjuvant is selected from the group consisting of Freund's, BCG (bacilli Calmette-Guerin), Corynebacterium parvum, aluminum hydroxide (ALUM), lysolecithin, pluronic polyols, polyanions, and dinitrophenol.

Claim 68 (new): A pharmaceutical composition of claim 67, wherein the adjuvant is selected from the group consisting of BCG, Corynebacterium parvum, and ALUM.